



ELSEVIER

Solid State Ionics 73 (1994) 327-331

**SOLID  
STATE  
IONICS**

## Author index to volume 73

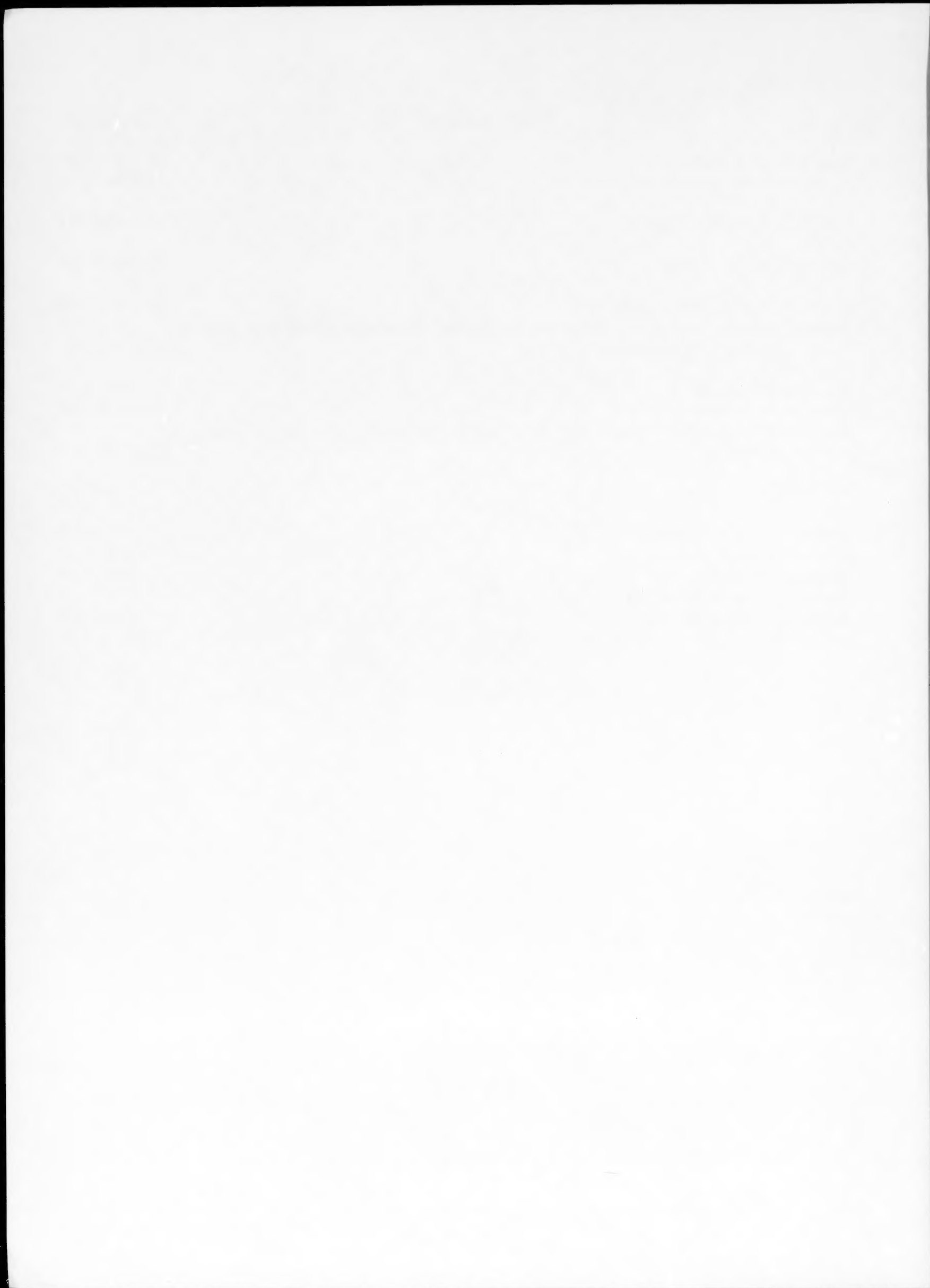
- Alcock, C.B., see N. Gunasekaran 73 (1994) 289  
Amano, E., see J.J. Carrillo-Lazo 73 (1994) 169  
Amels, P., see P. Nischwitz 73 (1994) 105
- Badwal, S.P.S., see F.T. Ciacchi 73 (1994) 49  
Bakshi, N., see N. Gunasekaran 73 (1994) 289  
Benyamin, K., Self-diffusion of sodium and cesium ions in hydrous titanium oxide 73 (1994) 303  
Blesa, M.A., see E.E. Sileo 73 (1994) 153  
Bradshaw, J., S.B. Tian and G. Xu, Ionic conductivity measurements of a high temperature quaternary copolymer 73 (1994) 147  
Burzyńska, L., J. Karp and Z. Zembura, Formation of copper hydride during  $\epsilon$ -brass dissolution with hydrogen depolarization. X-ray diffraction analysis 73 (1994) 35
- Carberry, J.J., see N. Gunasekaran 73 (1994) 289  
Carrillo-Lazo, J.J., P. Quintana, E. Amano and A. Huanosta, Ac impedance spectroscopy studies of the solid solution  $\text{Li}_2\text{Zr}_{1-x}\text{Ti}_x\text{O}_3$  73 (1994) 169  
Chelali, N. and J. Guitton, Electrochemical behavior of  $\alpha$ - and  $\beta$ - $\text{PbO}_2$ . Part I: Proton diffusion from "all solid-state" protonic electrolyte 73 (1994) 227  
Chiodelli, G. and M. Scagliotti, Electrical characterization of lanthanum zirconate reaction layers by impedance spectroscopy 73 (1994) 265  
Ciacchi, F.T., K.M. Crane and S.P.S. Badwal, Evaluation of commercial zirconia powders for solid oxide fuel cells 73 (1994) 49  
Clearfield, A., see D.M. Poojary 73 (1994) 75  
Colomban, Ph. and E. Mouchon, Phase transition in thermal history and expansion of NASICON, solid solution and lithium derivative ceramics and of SiC (mullite) fibers-NASICON composites 73 (1994) 209  
Crane, K.M., see F.T. Ciacchi 73 (1994) 49  
Criado, C., see J.R. Ramos-Barrado 73 (1994) 67  
Croce, F., see P.E. Stallworth 73 (1994) 119
- Dahn, J.R., see M.N. Richard 73 (1994) 81  
Dieckmann, R., see J. Xue 73 (1994) 273  
Doi, A., O. Kawasaki and Y. Itoh, Mechanical relaxations of  $(\text{AgI})_x(\text{Ag}_4\text{P}_2\text{O}_7)_{1-x}$  glasses in the temperature range from  $-150$  to  $200^\circ\text{C}$  73 (1994) 241  
Duverger, E., B. Jannot, M. Maglione and M. Jannin, Electrical transport properties of Mn- and Ni-doped barium titanate at high temperature 73 (1994) 139
- Elliott, S.R., see M. Le Stanguennec 73 (1994) 199

- Fang, C., see H. Gao 73 (1994) 99
- Farfán-Torres, E.M., see M. Martínez-Lara 73 (1994) 189
- Fetting, F., see P. Nischwitz 73 (1994) 105
- Filal, M., see D. Monceau 73 (1994) 221
- Frade, J.R., see R.M.C. Marques 73 (1994) 15
- Frade, J.R., see R.M.C. Marques 73 (1994) 27
- Friebel, C., see R. Stoyanova 73 (1994) 1
- Fuller, E.W., see M.N. Richard 73 (1994) 81
- 
- Galer, J.M., see M.J. Hudson 73 (1994) 175
- Ganne, M., see O. Joubert 73 (1994) 309
- Gao, H., Y. Huo, C. Fang, C. Sun and Y. Zhang, Ionic conduction in oxysulfide glasses for the  $\text{Li}_2\text{S}-\text{B}_2\text{O}_3(-\text{LiBr})$  systems 73 (1994) 99
- García-Alvarado, F. and J.M. Tarascon, Lithium intercalation in  $\text{Ag}_2\text{V}_4\text{O}_{11}$  73 (1994) 247
- Gopalakrishnan, J., see V. Thangadurai 73 (1994) 9
- Gorenstein, A., see C. Julien 73 (1994) 319
- Greenbaum, S.G., see P.E. Stallworth 73 (1994) 119
- Guesdon, J.P., see C. Julien 73 (1994) 319
- Guitton, J., see N. Chelali 73 (1994) 227
- Gunasekaran, N., S. Rajadurai, J.J. Carberry, N. Bakshi and C.B. Alcock, Surface characterization and catalytic properties of  $\text{La}_{1-x}\text{A}_x\text{MO}_3$  perovskite type oxides. Part I. Studies on  $\text{La}_{0.95}\text{Ba}_{0.05}\text{MO}_3$  ( $\text{M}=\text{Mn}, \text{Fe}$  or  $\text{Co}$ ) oxides 73 (1994) 289
- Gür, T.M., see J. Li 73 (1994) 185
- 
- Hagenmuller, P., see E.F. Hairetdinov 73 (1994) 93
- Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type  $\text{Pb}_{1-x-y}\text{In}_{x-y}\text{Bi}_{2y}\text{F}_{2+x+y}$  (fixed  $x$ ,  $0 \leq y \leq x$ ) solid solution involving two substitutional cations 73 (1994) 93
- Han, J. and Y.-S. Lin, An improved analysis on kinetics of electrochemical vapor deposition 73 (1994) 255
- Hayashi, H., see J. Li 73 (1994) 185
- Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in  $\text{MgO}$ -partially stabilized  $\text{ZrO}_2$  electrolytes using EMF method 73 (1994) 41
- Huanosta, A., see J.J. Carrillo-Lazo 73 (1994) 169
- Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2 73 (1994) 175
- Huo, Y., see H. Gao 73 (1994) 99
- Hussain, O.M., see C. Julien 73 (1994) 319
- 
- Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluoride doped potassium fluoride and ionic conduction 73 (1994) 283
- Itoh, Y., see A. Doi 73 (1994) 241
- 
- Jannin, M., see E. Duverger 73 (1994) 139
- Jannot, B., see E. Duverger 73 (1994) 139
- Jiménez-López, A., see J.R. Ramos-Barrado 73 (1994) 67
- Jiménez-López, A., see M. Martínez-Lara 73 (1994) 189
- Jouanneaux, A., see O. Joubert 73 (1994) 309

- Joubert, O., A. Jouanneaux, M. Ganne, R.N. Vannier and G. Mairesse, Solid phase synthesis and characterization of new BIMEVOX series:  $\text{Bi}_4\text{V}_{2-x}\text{M}_x\text{O}_{11}$  ( $\text{M}=\text{Sb}^{\text{V}}, \text{Nb}^{\text{V}}$ ) 73 (1994) 309
- Julien, C., G.A. Nazri, J.P. Guesdon, A. Gorenstein, A. Khelfa and O.M. Hussain, Influence of the growth conditions on electrochemical features of  $\text{MoO}_3$  film-cathodes in lithium microbatteries 73 (1994) 319
- Kanamaru, F., see Y. Ito 73 (1994) 283
- Karp, J., see L. Burzyńska 73 (1994) 35
- Katayama, K. and M. Senna, Preferential local dissolution of indented silicon {111} surface by aqueous solutions of HF with varying pH 73 (1994) 127
- Kawasaki, O., see A. Doi 73 (1994) 241
- Khelfa, A., see C. Julien 73 (1994) 319
- Kuo, C.K. and P.S. Nicholson, The growth of  $\text{K}-\beta''\text{-Al}_2\text{O}_3$  single-crystal films on single-crystal  $\alpha\text{-Al}_2\text{O}_3$  substrates 73 (1994) 297
- Le Stanguennec, M. and S.R. Elliott, Frequency-dependent ionic conductivity in  $\text{AgI-AgPO}_3$  glasses 73 (1994) 199
- Li, J., see P.E. Stallworth 73 (1994) 119
- Li, J., T.M. Gür, R. Sinclair, S.S. Rosenblum and H. Hayashi, Oxygen coulometric titration study of M Ba-ferrite 73 (1994) 185
- Lin, Y.-S., see J. Han 73 (1994) 255
- Liu, Q., see K. Huang 73 (1994) 41
- Machida, N., Y. Matsuda, T. Shigematsu, N. Nakanishi and T. Minami, Preparation and cuprous ion conducting properties of the glasses in the system  $\text{CuI-Cu}_2\text{WO}_4\text{-CuPO}_3$  73 (1994) 63
- Maglione, M., see E. Duverger 73 (1994) 139
- Maireles-Torres, P., see J.R. Ramos-Barrado 73 (1994) 67
- Mairesse, G., see O. Joubert 73 (1994) 309
- Marques, F.M.B., see R.M.C. Marques 73 (1994) 15
- Marques, F.M.B., see R.M.C. Marques 73 (1994) 27
- Marques, R.M.C., F.M.B. Marques and J.R. Frade, Characterization of mixed conductors by dc techniques. Part I: Theoretical solutions 73 (1994) 15
- Marques, R.M.C., F.M.B. Marques and J.R. Frade, Characterization of mixed conductors by dc techniques. Part II: Experimental results 73 (1994) 27
- Martínez-Lara, M., E.M. Farfán-Torres, J. Santamaría-González and A. Jiménez-López, Porous silica pillared  $\alpha\text{-ZrTi}$  phosphate-phosphonates materials 73 (1994) 189
- Matsuda, Y., see N. Machida 73 (1994) 63
- McEvoy, A.J., see S. Widmer 73 (1994) 165
- Minami, T., see N. Machida 73 (1994) 63
- Monceau, D., M. Filal, M. Tebtoub, C. Petot and G. Petot-Ervas, Kinetic demixing of ceramics in an electrical field 73 (1994) 221
- Mouchon, E., see Ph. Colomban 73 (1994) 209
- Mukoyama, T., see Y. Ito 73 (1994) 283
- Nakanishi, N., see N. Machida 73 (1994) 63
- Nazri, G.A., see C. Julien 73 (1994) 319
- Nicholson, P.S., see C.K. Kuo 73 (1994) 297

- Nischwitz, P., P. Amels and F. Fetting, Studies on the ionic conductivity of zeolitic solids 73 (1994) 105
- Olivera-Pastor, P., see J.R. Ramos-Barrado 73 (1994) 67
- Petot, C., see D. Monceau 73 (1994) 221
- Petot-Ervas, G., see D. Monceau 73 (1994) 221
- Poojary, D.M., A. Clearfield, V.A. Timofeeva and S.E. Sigaryov, Crystal structures and ionic conductivity of  $\text{Na}_5\text{MP}_2\text{O}_8\text{F}_2$  ( $\text{M} = \text{Al}, \text{Ga}$ ) 73 (1994) 75
- Quintana, P., see J.J. Carrillo-Lazo 73 (1994) 169
- Quinteros-Rivero, M.F., see E.E. Sileo 73 (1994) 153
- Rajadurai, S., see N. Gunasekaran 73 (1994) 289
- Ramos-Barrado, J.R., C. Criado, P. Maireles-Torres, P. Olivera-Pastor, E. Rodríguez-Castellón and A. Jiménez-Lopez, Hopping conductivity in lithium-exchanged pillared layered tin phosphate materials 73 (1994) 67
- Ravindranathan Thampi, K., see S. Widmer 73 (1994) 165
- Réau, J.M., see E.F. Hairetdinov 73 (1994) 93
- Richard, M.N., E.W. Fuller and J.R. Dahn, The effect of ammonia reduction on the spinel electrode materials,  $\text{LiMn}_2\text{O}_4$  and  $\text{Li}(\text{Li}_{1/3}\text{Mn}_{5/3})\text{O}_4$  73 (1994) 81
- Rigotti, G., see E.E. Sileo 73 (1994) 153
- Rivero, B.E., see E.E. Sileo 73 (1994) 153
- Rodríguez-Castellón, E., see J.R. Ramos-Barrado 73 (1994) 67
- Rosenblum, S.S., see J. Li 73 (1994) 185
- Salomon, M., see P.E. Stallworth 73 (1994) 119
- Santamaría-González, J., see M. Martínez-Lara 73 (1994) 189
- Scagliotti, M., see G. Chiodelli 73 (1994) 265
- Senna, M., see K. Katayama 73 (1994) 127
- Shigematsu, T., see N. Machida 73 (1994) 63
- Shukla, A.K., see V. Thangadurai 73 (1994) 9
- Sigaryov, S.E., see D.M. Poojary 73 (1994) 75
- Sileo, E.E., M.F. Quinteros-Rivero, B.E. Rivero, G. Rigotti and M.A. Blesa, Structure and reactivity of copper(II) carboxylates I. Copper (II) dipicolinates 73 (1994) 153
- Sinclair, R., see J. Li 73 (1994) 185
- Slane, S., see P.E. Stallworth 73 (1994) 119
- Stallworth, P.E., J. Li, S.G. Greenbaum, F. Croce, S. Slane and M. Salomon, Sodium-23 NMR and complex impedance studies of gel electrolytes based on poly(acrylonitrile) 73 (1994) 119
- Stoyanova, R., E. Zhecheva and C. Friebel,  $\text{Ni}^{3+}$ - $\text{Ni}^{2+}$  segregation in  $\text{Li}_x\text{Ni}_{2-x}\text{O}_2$  solid solutions ( $0.6 \leq x < 1$ ) 73 (1994) 1
- Stoyanova, R., E. Zhecheva and L. Zarkova, Effect of Mn-substitution for Co on the crystal structure and acid delithiation of  $\text{LiMn}_y\text{Co}_{1-y}\text{O}_2$  solid solutions 73 (1994) 233
- Sun, C., see H. Gao 73 (1994) 99
- Tarascon, J.M., see F. García-Alvarado 73 (1994) 247
- Tebtoub, M., see D. Monceau 73 (1994) 221
- Thangadurai, V., A.K. Shukla and J. Gopalakrishnan, Proton conduction in layered perovskite oxides 73 (1994) 9

- Tian, S.B., see J. Bradshaw 73 (1994) 147
- Timofeeva, V.A., see D.M. Poojary 73 (1994) 75
- Uvarov, N.F., see E.F. Hairtdinov 73 (1994) 93
- Vannier, R.N., see O. Joubert 73 (1994) 309
- Wahbi, M., see E.F. Hairtdinov 73 (1994) 93
- Widmer, S., K. Ravindranathan Thampi and A.J. McEvoy, Impedance spectroscopy of an electrocatalytic cathode domain in a SOFC 73 (1994) 165
- Xia, Y., see K. Huang 73 (1994) 41
- Xu, G., see J. Bradshaw 73 (1994) 147
- Xue, J. and R. Dieckmann, Variation of the oxygen content in tetragonal, calcium oxide-doped zirconia 73 (1994) 273
- Yoshikado, S., see Y. Ito 73 (1994) 283
- Zarkova, L., see R. Stoyanova 73 (1994) 233
- Zembura, Z., see L. Burzyńska 73 (1994) 35
- Zhang, Y., see H. Gao 73 (1994) 99
- Zhecheva, E., see R. Stoyanova 73 (1994) 1
- Zhecheva, E., see R. Stoyanova 73 (1994) 233





ELSEVIER

Solid State Ionics 73 (1994) 333,334

**SOLID  
STATE  
IONICS**

## Subject Index to Volume 73

- Acid delithiation, 233  
Acidity, 189  
Ag<sup>+</sup> conduction, 241  
AgI-AgPO<sub>3</sub> glasses, 199  
Aluminum fluorophosphate, 75  
Ammonia reduction, 81
- β"-alumina, 297  
Barium titanate, 139  
Ba substituted perovskites, 289  
Battery  
  lithium, 319  
Beta-lead fluoride doped potassium fluoride, 283  
BIMEVOX, 309  
Boron oxide, 99  
Brass, 35  
Bronze, 247
- CaO-doped zirconia, 273  
Catalysis, 289  
Catalytic activity, 105  
Ceramic matrix composites (CMC), 209  
Ceramics, 221  
Cesium diffusion, 303  
Complex correlated system (CCS), 67  
Conduction paths, 105  
Conductivity, 49, 139, 175  
Copper carboxylates, 153  
Copper hydride, 35  
Copper phosphate, 63  
Copper sulphide coatings, 175  
Copper tungstate, 63
- DABSA, 147  
Defect conductivity, 9  
Defects, 139  
Dehydration, 153  
Dipicolinate, 153  
Dislocation reaction, 127
- Electrocatalysis, 165  
Electrochemical permeability, 15, 27  
Electrochemical vapor deposition (EVD), 255  
Electrolyte, 49
- Electronic conductivity, 41  
EPR, 1  
Etching, 127
- Film growth, 255  
Fluorite, 93  
Fuel cell, 165
- Gel electrolytes, 119  
Glass, 63, 99  
Glassy electrolytes, 241
- Hopping conductivity, 67  
Hydrogen uranyl phosphate (HUP), 227
- Impedance, 49  
Impedance spectroscopy, 105, 139, 165, 265  
Interfacial electrochemistry, 165  
Ion blocking technique, 15, 27  
Ion-exchange, 303  
Ionic conductivity, 199, 309  
  copper, 63  
  fluorine, 93, 283  
  lithium, 99, 147  
  oxygen, 265  
  proton, 9  
  sodium, 75  
Ionic hopping, 199
- Kinetic demixing, 221  
Kinetics, 255
- Lamellar solid, 189  
Lanthanum zirconium oxide, 265  
Layered structure, 67  
Lead fluoride, 93  
Lithium battery, 81, 247  
Lithium-manganese-cobalt oxide, 233  
Lithium nickelate, 1  
Low-spin Ni<sup>3+</sup>, 1
- Manganese oxide, 81  
M barium-ferrite, 185  
Mechanical relaxation, 241

- Methane oxidation, 289  
Mixed valence dopant, 15, 27  
Mo/MoO<sub>2</sub> reference, 41  
Molybdenum oxide, 319  
Mullite fibers, 209  
  
NASICON, 209  
NMR study of Na<sup>+</sup> motion, 119  
  
O<sub>2</sub> properties, 289  
Oxygen concentration cell, 15, 27  
Oxygen coulometric titration, 185  
Oxysulfide, 99  
  
Perovskite, 9  
Phase transitions, 209  
Phosphate glasses, 241  
Phosphates, 189  
Pillared materials, 67, 189  
PMDA, 147  
Poly(acrylonitrile) fibres, 175  
Poly(acrylonitrile) gels, 119  
Polyimide, 147  
Polymer, 147  
Potassium, 297  
Proton diffusion, 227  
  
Reduction mechanism, 227  
Rietveld, 309  
  
Self diffusion, 303  
Short-range order, 1  
SiC fibers, 209  
  
Silica, 189  
Silicon, 127  
Silver iodide, 241  
Silver vanadium oxide, 247  
Single crystal, 297  
Sodium diffusion, 303  
SOFC, 49  
Solid protonic conductor (SPC), 227  
Spinel, 81  
Stability, 185  
Structure, 153, 283  
  
Thermal decomposition, 153  
Thermal expansion, 209  
Thermogravimetry, 273  
Thin film, 265, 297, 319  
Tin phosphate, 67  
Titanium oxide, 9, 303  
Topochemical reaction, 127  
  
Vanadium, 247  
Vanadium oxide, 247  
Variation of oxygen content, 273  
  
XPS studies, 289  
X-ray diffraction, 75  
  
YSZ, 255  
  
Zeolites, 105  
Zinc dissolution, 35  
Zirconia, 15, 27, 41, 49